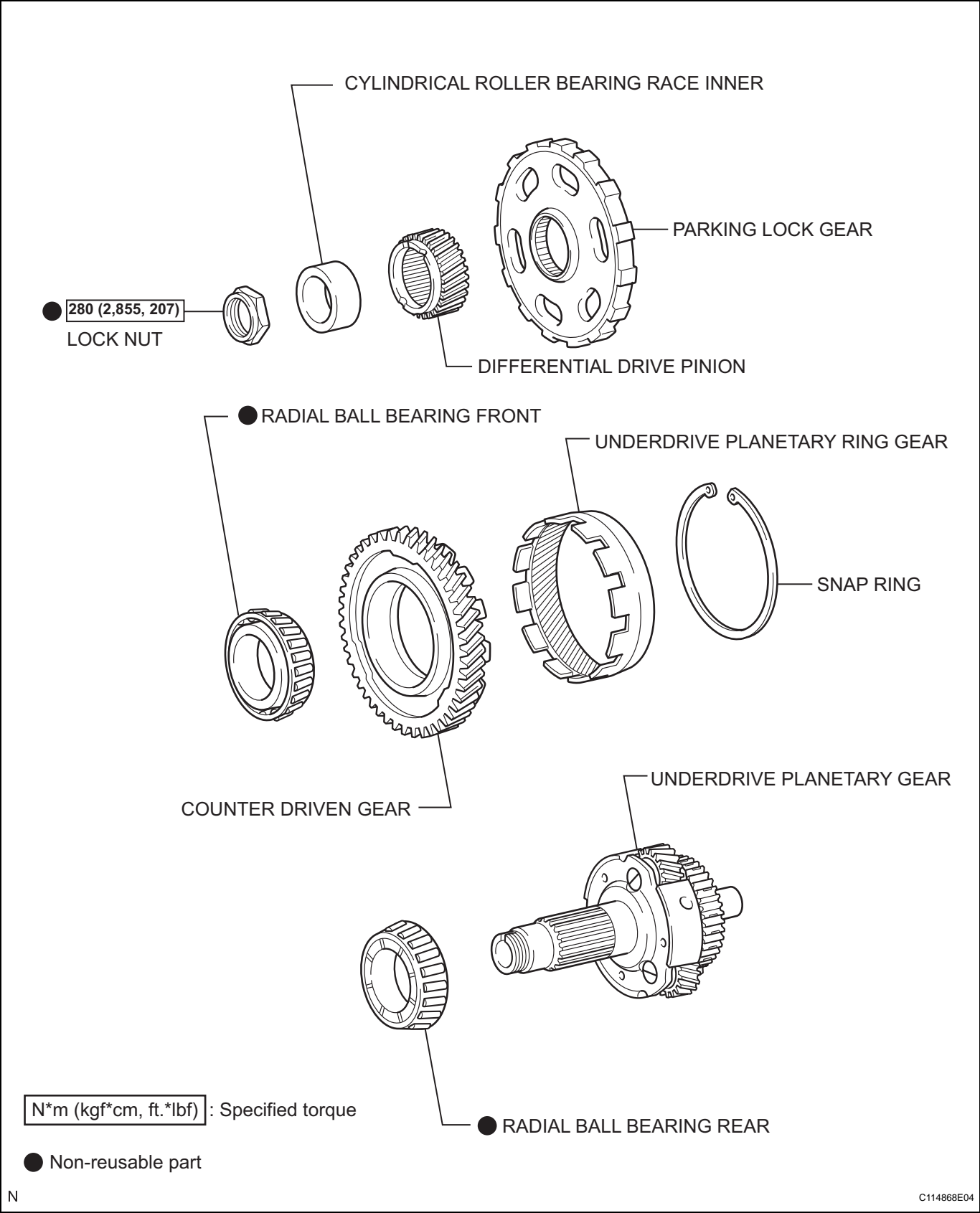


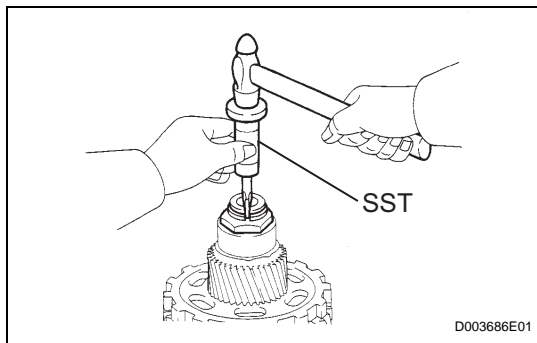
UNDERDRIVE PLANETARY GEAR

COMPONENTS



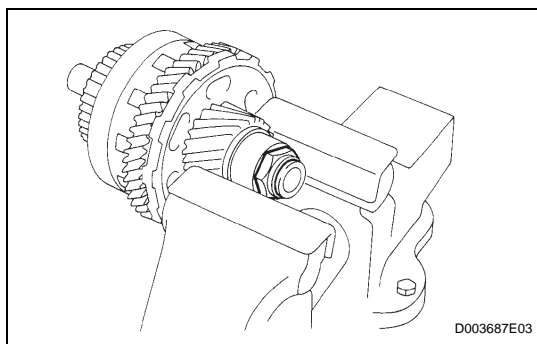
DISASSEMBLY

1. INSPECT UNDERDRIVE PLANETARY GEAR PRELOAD (See page [AX-270](#))



2. REMOVE FRONT PLANETARY GEAR NUT

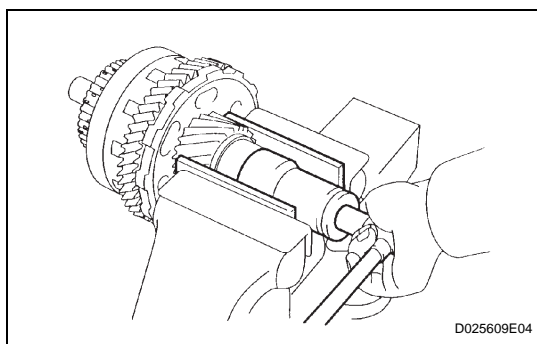
- (a) Using SST, loosen the staked part of the lock nut.
SST 09930-00010 (09931-00010, 09931-00020), 09387-00050



- (b) Place the underdrive planetary gear in a soft jaw vise.

NOTICE:

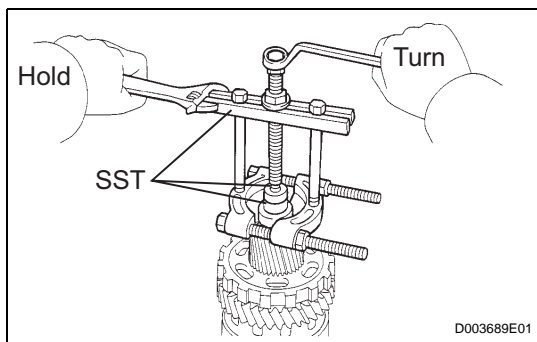
Be careful not to damage the differential drive pinion.

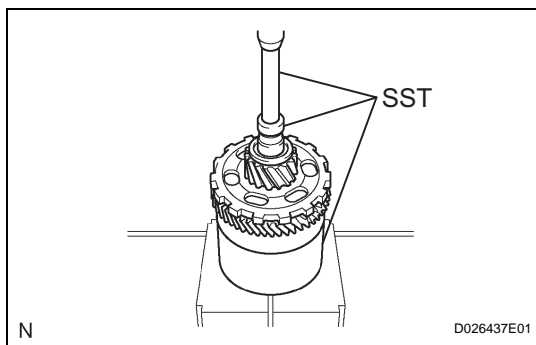


- (c) Using a socket wrench, remove the lock nut.

3. REMOVE CYLINDRICAL ROLLER BEARING RACE INNER

- (a) Using SST, remove the cylindrical roller bearing race inner.
SST 09950-00020, 09950-00030, 09950-60010 (09951-00320, 09957-04010)

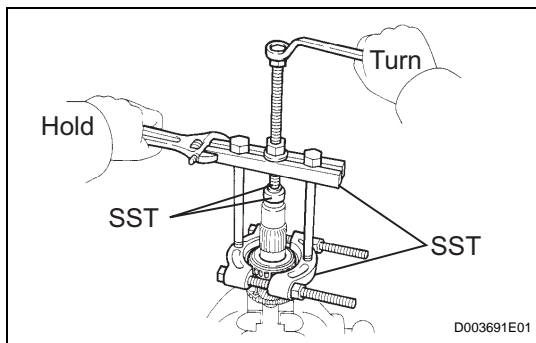




4. REMOVE UNDERDRIVE PLANETARY GEAR ASSEMBLY

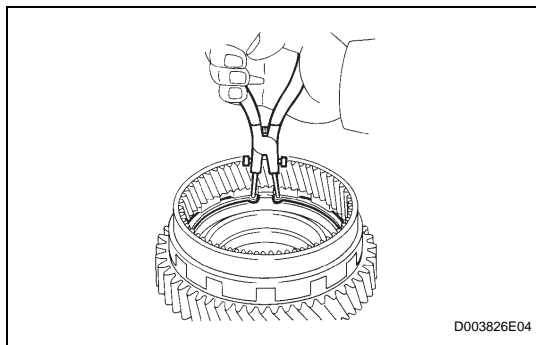
- (a) Using SST and a press, press out the differential drive pinion, parking lock gear, counter driven gear with underdrive planetary ring gear and radial ball bearing front.

SST 09950-60010 (09951-00320), 09387-00050, 09950-00020, 09950-00030, 09950-40011 (09957-04010)



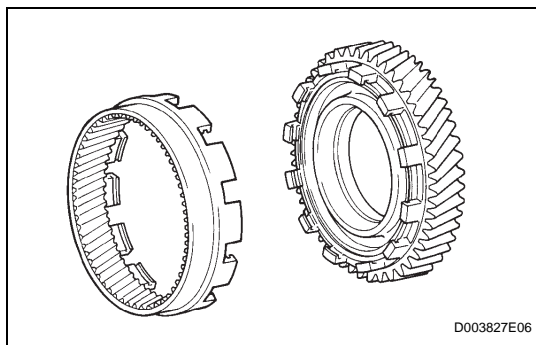
- (b) Place the underdrive planetary gear in a soft jaw vise.
(c) Using SST, remove the radial ball bearing rear from the underdrive planetary gear.

SST 09950-60010 (09951-00320), 09950-00030, 09950-40011 (09957-04010)

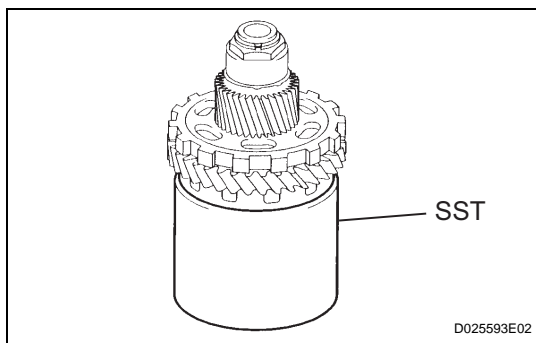


5. REMOVE UNDERDRIVE PLANETARY RING GEAR

- (a) Using snap ring pliers, remove the snap ring.



- (b) Remove the underdrive planetary ring gear from the counter driven gear.

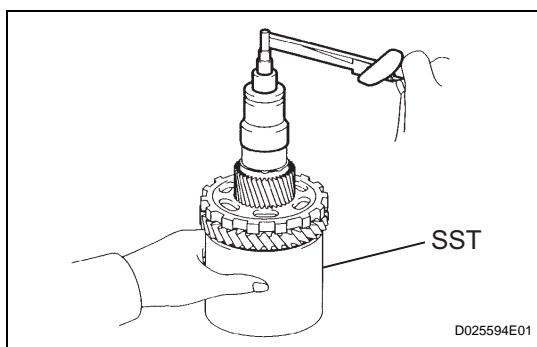


INSPECTION

1. INSPECT UNDERDRIVE PLANETARY GEAR PRELOAD

- (a) Using SST, fix the underdrive planetary gear.

SST 09387-00050



- (b) Using SST and a torque wrench, measure the turning torque of the underdrive planetary gear assembly while rotating the torque wrench at 60 rpm.

SST 09387-00050

Torque: Standard turning torque at 60 rpm

0.50 to 1.42 N*m (5.1 to 14.5 kgf*cm, 4.4 to 12.6 in.*lbf)

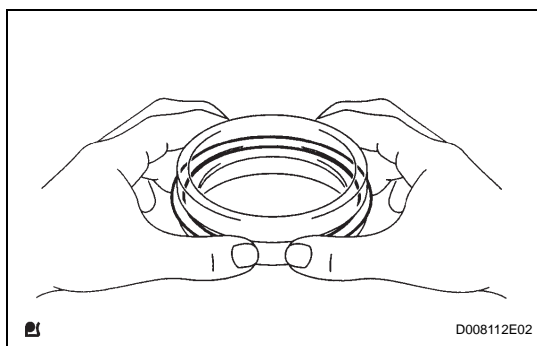
REASSEMBLY

1. INSTALL UNDERDRIVE PLANETARY RING GEAR

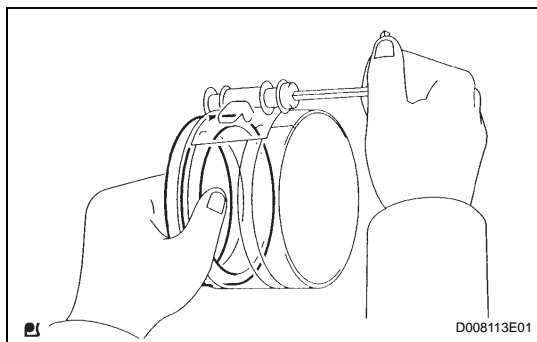
- (a) Install a new snap ring to the outer race of the radial ball bearing rear.

HINT:

When replacing the bearing, also replace the counter driven gear with a new one.



- (b) Using a piston ring compressor, squeeze the snap ring.

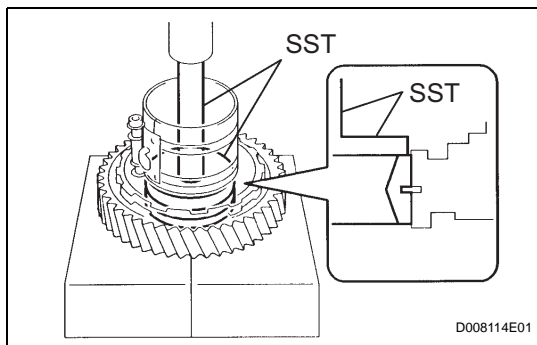


- (c) Using SST and a press, press in the outer race of the radial ball bearing rear.

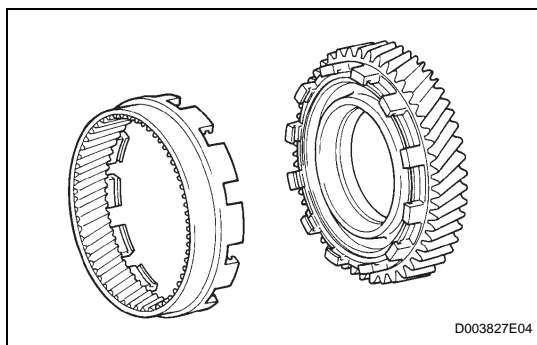
SST 09950-60020 (09951-00890), 09950-70010 (09951-07100)

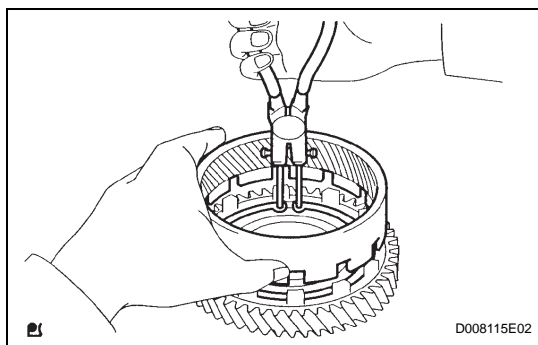
NOTICE:

Be sure not to damage the snap ring during outer race installation.

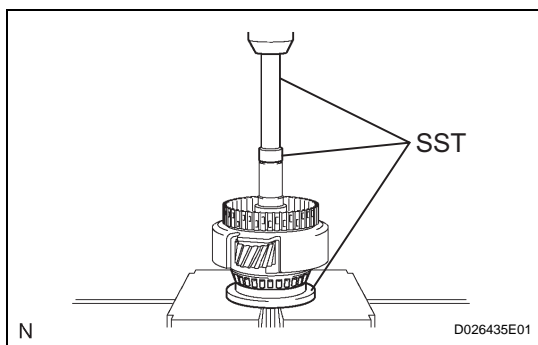


- (d) Install the underdrive planetary ring gear to the counter driven gear.





- (e) Using snap ring pliers, install the snap ring.

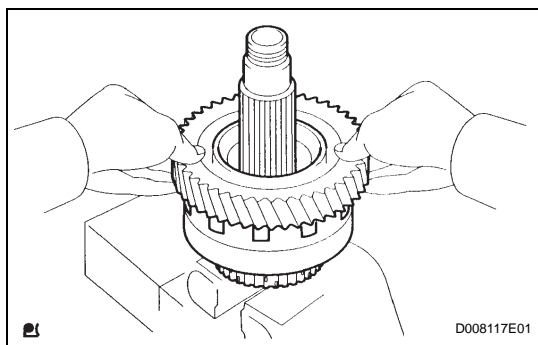


2. INSTALL UNDERDRIVE PLANETARY GEAR ASSEMBLY

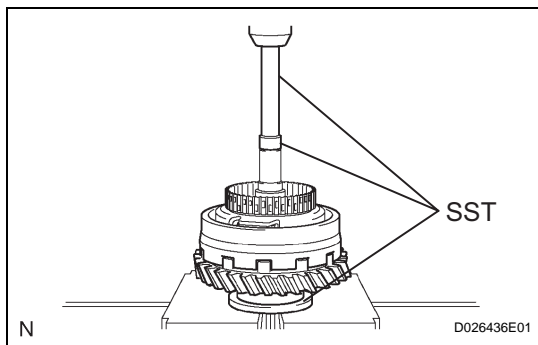
- (a) Using SST and a press, press in the radial ball bearing rear to the underdrive planetary gear.
SST 09502-12010, 09950-60010 (09951-00260), 09950-70010 (09951-07100)

NOTICE:

Press the bearing until it becomes flat at the bottom.



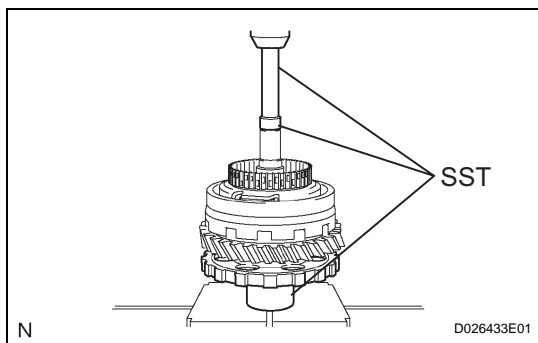
- (b) Install the counter driven gear with planetary ring gear to the underdrive planetary gear.



- (c) Using SST and a press, press in the radial ball bearing front.
SST 09502-12010, 09950-60010 (09951-00260), 09950-70010 (09951-07100)

NOTICE:

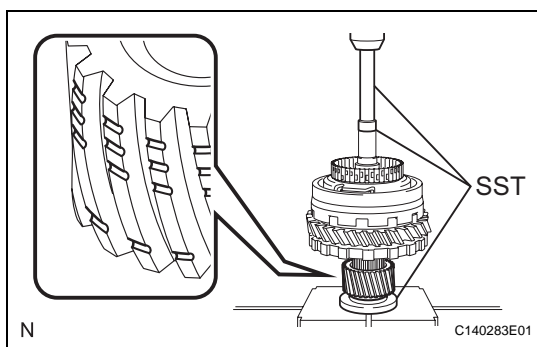
Press the counter driven gear while rotating it.



- (d) Using SST and a press, press in the parking lock gear.
SST 09502-12010, 09950-60010 (09951-00260), 09950-70010 (09951-07100)

NOTICE:

Press the counter driven gear while rotating it.



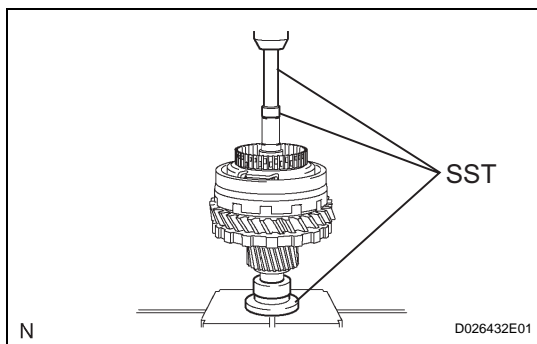
3. INSTALL DIFFERENTIAL DRIVE PINION

- (a) Using SST and a press, press in the differential drive pinion.

SST 09726-40010, 09950-60010 (09951-00260),
09950-70010 (09951-07100)

NOTICE:

- Press the counter driven gear while rotating it.
- Check the position and number of the grooves on each end face of the differential drive pinion gear.



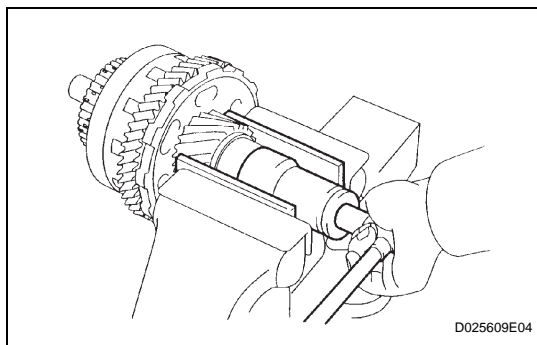
4. INSTALL CYLINDRICAL ROLLER BEARING RACE INNER

- (a) Using SST and a press, press in the cylindrical roller bearing race inner.

SST 09506-35010, 09950-60010 (09951-00260),
09950-70010 (09951-07100)

NOTICE:

Press the counter driven gear while rotating it.



5. INSTALL FRONT PLANETARY GEAR NUT

- (a) Place the underdrive planetary gear in a soft jaw vise.

NOTICE:

Be careful not to damage the differential drive pinion.

- (b) Using a socket wrench, install a new lock nut.
Torque: 280 N*m (2,885 kgf*cm, 207 ft.*lbf)

- (c) Using a pin punch and hammer, stake the lock nut.

NOTICE:

Be sure that there are no cracks on the nut.

6. INSPECT UNDERDRIVE PLANETARY GEAR PRELOAD (See page [AX-270](#))

